

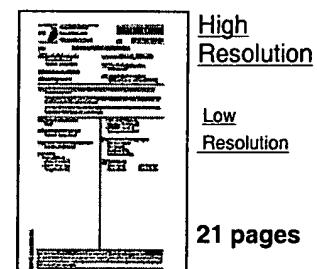
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- >Title: **EP0783389B1: SYSTEM FOR ADAPTING AN AUTOMATIC SCREW MACHINE TO ACHIEVE COMPUTER NUMERIC CONTROL** [German][French]
- Derwent Title: Numerical control adaption for converting automatic screw machine - has unit that replaces turret cam of single spindle screw machine and actuates turret slide in synchronism with cam shaft [Derwent Record]
- Country: EP European Patent Office (EPO)
- Kind: B1 Patent (See also: [EP0783389A1](#), [EP0783389A4](#))
- Inventor: PUGH, Dennis, R.; SHOOK, William, Blair; WALLISTER, Thomas, M.; VOHNOUT, Vincent, J.;
- Assignee: THURSTON/AMT PARTNERSHIP
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- Published / Filed: 2002-04-17 / 1994-09-23
- Application Number: EP1995000910852
- IPC Code: Advanced: [B23G 1/04](#); [G05B 19/18](#); Core: [B23G 1/00](#); more...
IPC-7: [B23G 1/04](#); [G05B 19/18](#);
- Priority Number: 1994-09-23 [CA1994002200581](#)
1994-09-23 [WO1994US0010807](#)
1993-07-28 [US1993000098959](#)
- Abstract: [From equivalent [EP0783389A1](#)] A system for adapting existing conventional screw machines to be capable of computer numeric control (CNC). The system incorporates the use of a VersaCam device (12) which replaces the turret cam of a single spindle screw machine (10). The VersaCam system monitors the motion of the screw machine camshaft and actuates the turret slide in synchronization with the camshaft. The VersaCam system also provides a means of specifying the desired turret slide trajectory for any given job. [French]
- Attorney, Agent or Firm: Thielmann, Andreas ;
- INPADOC Legal Status: [Show legal status actions](#) Get Now: [Family Legal Status Report](#)
- Designated Country: DE GB
- Family: [Show 13 known family members](#)
- First Claim: 1. An apparatus for adapting a conventional, non-CNC, single-spindle automatic screw machine (10) having a camshaft and a tool
[Show all claims](#)



slide to accept computer numerical control, wherein the system comprises:

- a turret slide (36);
- a specified turret slide trajectory, said trajectory comprising a locus of turret slide positions;
- a machine cycle position monitor that provides the current machine cycle position by directly or indirectly monitoring the camshaft position;
- a position transformer which determines a desired turret slide position as a direct function of said current machine cycle position, independent of time, on a substantially continuous basis; and
- a position controller that causes the turret slide to achieve said desired turret slide position along said turret slide trajectory.

[\[German\]](#) [\[French\]](#)

 **Description**

[Expand description](#)

 **BACKGROUND AND SUMMARY OF THE INVENTION**

The present invention relates generally to automatic screw machines (see e.g. US-A [4 255 991](#)), and more particularly, to a system for adapting screw machines into computer numeric control ("CNC") operated machines by incorporating a unique VersaCam® device in place of a conventional hard cam.

 **Brief Description of the Drawings**

 **DESCRIPTION OF PREFERRED EMBODIMENT(S)**

 **Other Abstract**

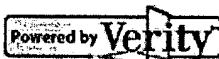
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